

What is claimed is:

1. A system for cleaning a surface, comprising:
a wand comprising a body, a neck mechanically coupled to the body, a brush mechanically coupled to the neck and comprising a plurality of bristles for contacting the surface, and an ultrasound generator mounted on at least one of the neck and the body so that ultrasonic vibrations generated by the ultrasound generator cause the bristles to oscillate and ultrasonic sound waves generated by the ultrasound generator are directed toward the surface;
a reservoir for holding a fluid;
a pump in fluid communication with the reservoir; and
a fitting in fluid communication with the pump and mounted on at least one of the brush and the neck so that the fitting directs a stream of the fluid toward the surface.
2. The system of claim 1, wherein the fitting comprises a nozzle.
3. The system of claim 2, wherein an entrance diameter of the nozzle is greater than an exit diameter of the nozzle.
4. The system of claim 1, wherein the fitting directs the stream of fluid between the bristles.
5. The system of claim 1, wherein the ultrasound generator comprises a piezoelectric transducer.
6. The system of claim 5, wherein the ultrasound generator further comprises an electronic driving module electrically coupled to the ultrasound generator.
7. The system of claim 5, wherein the piezoelectric transducer is a piezoelectric crystal.

8. The system of claim 1, wherein the ultrasound generator comprises an elongated member mechanically coupled to the brush, a magnet mechanically coupled to the elongated member, and a magnetic field generator, the magnet being positioned proximate the magnetic field generator so that the magnetic field generator causes the magnet to oscillate.

9. The system of claim 8, wherein the magnetic field generator is mounted within the body and the elongated member extends through the neck.

10. The system of claim 1, wherein the ultrasound generator comprises an eccentrically-weighted motor.

11. The system of claim 1, further comprising a pulsing valve in fluid communication with the pump.

12. The system of claim 1, wherein the neck is a telescoping neck.

13. Further comprising a second reservoir mounted on the wand for directing a second fluid toward the surface.

14. The system of claim 1, wherein the brush further comprises a base having a cavity formed therein for receiving an end of the neck.

15. The system of claim 14, wherein at least a portion of the fitting is positioned in through holes formed in the end of the neck and the base.

16. The system of claim 14, wherein the ultrasound generator comprises a piezoelectric transducer mounted in the end of the neck so that vibrations generated by the ultrasound generator are transmitted to the bristles by way of the end of the neck and the base.

17. The system of claim 1, wherein the brush further comprises a base, the bristles are mounted on the base, and the fitting is mounted on and extends through the base.

18. The system of claim 5, wherein the piezoelectric transducer is mechanically coupled to the brush by an elongated rigid member.
19. The system of claim 5, wherein the ultrasound generator further comprises an eccentrically-weighted motor.
20. A cleaning system, comprising:
 - a wand comprising a body, a neck mechanically coupled to the body, a brush mechanically coupled to the neck, and an ultrasound generator mounted on at least one of the body and the neck;
 - a fitting mounted on at least one of the brush and the neck;
 - a pump in fluid communication with the fitting; and
 - a fluid reservoir in fluid communication with the pump.
21. The system of claim 20, wherein the brush is mounted on the neck.
22. The system of claim 20, wherein the fitting comprises a nozzle.
23. The system of claim 20, wherein the ultrasound generator comprises a piezoelectric transducer.
24. The system of claim 20, further comprising a pulsing valve in fluid communication with the pump.
25. A system for cleaning a surface, comprising a brush having a plurality of bristles, a fitting mechanically coupled to the brush for directing a stream of fluid at the surface, and an ultrasound generator for causing the bristles to oscillate.
26. The system of claim 25, further comprising a wand comprising a body, and a neck mechanically coupled to the body and the brush, the ultrasound generator being mounted on a least one of the body and the neck.
27. The system of claim 25, wherein the fitting comprises a nozzle.

28. The system of claim 27, wherein an entrance diameter of the nozzle is greater than an exit diameter of the nozzle.

29. The system of claim 25, wherein the ultrasound generator comprises a piezoelectric transducer.

30. The system of claim 29, wherein the ultrasound generator further comprises an electronic driving module electrically coupled to the ultrasound generator.

31. The system of claim 29, wherein the piezoelectric transducer is a piezoelectric crystal.

32. The system of claim 25, wherein the ultrasound generator comprises an elongated member mechanically coupled to the brush, a magnet mechanically coupled to the elongated member, and a magnetic field generator, the magnet being positioned proximate the magnetic field generator so that the magnetic field generator causes the magnet to oscillate.

33. The system of claim 25, wherein the ultrasound generator comprises an eccentrically-weighted motor.

34. A system for cleaning a surface, comprising:
a wand comprising a body, a neck mechanically coupled to the body, a brush mechanically coupled to the neck and comprising a plurality of bristles for contacting the surface, and an ultrasound generator mounted on at least one of the neck and the body so that ultrasonic vibrations generated by the ultrasound generator cause the bristles to oscillate and ultrasonic sound waves generated by the ultrasound generator are directed toward the surface; and

a fitting mounted on at least one of the neck and the brush for receiving pressurized fluid and directing the pressurized fluid toward the surface.

35. A method for cleaning a surface using a wand having an ultrasound generator, comprising:

positioning the wand proximate the surface so that the ultrasound generator is acoustically coupled to the surface; and

directing a stream of fluid at the surface from the wand.

36. The method of claim 35, further comprising positioning the wand proximate the surface so that bristles of a brush of the wand scrub the surface in response to ultrasonic vibrations generated by the ultrasound generator.

37. The method of claim 35, wherein directing a stream of fluid at the surface from the wand comprises directing a jet of the fluid at the surface from the wand.

38. The method of claim 35, wherein directing a stream of fluid at the surface from the wand comprises directing a pulsing stream of the fluid at the surface from the wand.

39. The method of claim 35, wherein directing a stream of fluid at the surface from the wand comprises directing one of a stream of water, a stream of cleaning solution, and a stream of solvent at the surface from the wand.

40. The method of claim 35, wherein positioning the wand proximate the surface so that the ultrasound generator is acoustically coupled to the surface comprises positioning the wand proximate the surface so that ultrasonic sound waves generated by the ultrasound generator are directed at the surface.

41. A method for cleaning a surface, comprising directing ultrasonic sound waves and a stream of fluid at the surface while scrubbing the surface with a brush.

42. The method of claim 41, wherein scrubbing the surface with a brush comprises causing bristles of the brush to oscillate in response to ultrasonic vibrations and bringing the bristles into contact with the surface.

43. The method of claim 41, wherein directing ultrasonic sound waves and a stream of fluid at the surface comprises directing a jet of the fluid at the surface.

44. The method of claim 41, wherein directing ultrasonic sound waves and a stream of fluid at the surface comprises directing a pulsing stream of the fluid at the surface.

45. The method of claim 41, wherein directing ultrasonic sound waves and a stream of fluid at the surface comprises directing one of a stream of water, a stream of cleaning solution, and a stream of solvent at the surface.